Project Summary and Justification

Department	Lincoln Fire & Rescue
Division	

This submitted Capital Improvement Program (CIP) for the period 2002-through 2008 conforms with the plan to provide the necessary and efficient emergency response for the savings of life and property, to the rapidly increasing size of the city of Lincoln.

Project 1 Station 15

The rapid annexations and expansion of the city of Lincoln has affected emergency response time within the city. Our goal has always been to maintain a rapid response time average of 3.5 minutes or less, to intervene as quickly as possible minimizing loss of life and property damage, and perform vital emergency medical services to our citizens. Fire protection, EMS services and the ISO rating have presented a need to add 2 additional fire stations in areas of the city that have experienced significant growth.

Station 15 is proposed to be built at approximately 7000 No. 27th, and would house 1 pumper, 1 aerial and 1 ambulance unit. This would require 33.25 FTE to staff. This station will meet the needs of the community for all current and proposed growth in this area. As new fire stations are added to the city additional vehicles must be added to the fleet. One additional Engine and one aerial is needed

Project 2 Station 16

Station 16 is proposed to be built at approximately 38th & Yankee Hill Road, and would house 1 pumper, 1 aerial and 1 ambulance unit. This would require 33.25 FTE to staff. This station will meet the needs of the community for all current and proposed growth in this area. As new fire stations are added to the city additional vehicles must be added to the fleet. One additional Engine and one aerial is needed.

Project 3 Automatic Vehicle Locators

This would be an add-on to the present 911 Computer Aided Dispatch System. This system coupled with the CAD GIS mapping, would identify the actual location of fire apparatus on the streets of Lincoln allowing the CAD to select the closest unit for dispatch to an emergency, reducing response time, and improving efficiency. Automatic vehicle locators would be new technology the field portion needed to provide data to the Emergency Communication, 911 CAD system

Project 4 Handheld and Mobil Radios

The current handheld and mobile radios in use by the department were purchased prior to 1991. These radios are no longer manufactured, and parts are becoming difficult to acquire for both the Ranger mobile and the MPA handheld models. In some instances, the radios are irreparable. Communications is a critical component for both firefighter safety, and emergency services. A fleet replacement plan is proposed to allow for uniformity in equipment for both operations and maintenance.

Project Summo	ry and Justification (cont.)	
Department	Lincoln Fire & Rescue	
Division		

Project 5 Educational, Training, and Fleet Service Campus

Currently the Lincoln Fire Department Maintenance and Training facility is located at 300 South Street. Our class rooms today are refurbished railroad cabooses limited in space and amenities. We desire to design and build a campus to accommodate our maintenance division as well as our training center. At this location we train all our emergency service personnel as well as other agencies throughout the city and state in many different aspects.

Currently our maintenance facility is undersized and can only accommodate 2 apparatus at one time. The garage bays are extremely cramped for space. Utilizing a drive-thru facility, we can provide a safer working environment, operations, and a quicker turn around time to get the downed fleet back into service. With these improvements we would be able to provide both vital elements of our operation at our campus.

Project 6 Station Modifications and Repairs

Many of our existing stations need some substantial modifications and/or repairs due to age. The average age of the fire station is 26 years. Limited major maintenance updates have been done to the stations in the recent past. The older facilities need to be updated with major repairs such as windows, roofs, heating/cooling and building structure additions. Fire Station #1 is unlike any of our other stations as it serves as our Administration Headquarters. Physical resources for this building are large and numerous and replacement and repair costs will be substantial. This building constructed in 1966 is in need of significant repair. Stations 3, 5 & 6 will continue to serve portions of the city effectively, but should have increased space for personnel, to accommodate health, safety and gender issues. This can be done with the addition of a second story to each of these facilities. With these changes these structures may be used for many years to come.

Project 7 Equipment for Heavy Rescue Unit

The department is currently utilizing an old public works vehicle for trench rescue, and does not currently have a vehicle or adequate equipment for Heavy rescue scenarios. This type of rescue includes, a variety of technical rescue incidents which include, structural collapse, trench collapse rescue, high angle and low angle and other types of rescue. In order to assure that the department is prepared and equipped, a vehicle and additional equipment for this type of rescue is needed.

Project 8 Replacement of Two Aerials

Our fleet of 5 aerial ladders consists of 2 units purchased in 1990 and 3 purchased in 1996. The 1990 models should be replaced when they are 15 years old.

Project 9 Station 11 Relocation

For many years we have provided Fire, EMS, and Crash Fire Rescue services from Fire Station #11 in the Airpark area. We had an inter-local agreement with the Airport Authority and received revenue to provide this service for the aircraft portion.

Project Summe	ry and Justification (cont.)	
Department	Lincoln Fire & Rescue	
Division		

This arrangement has changed, we no longer provide the Aircraft protection. This element is provided by the Federal Government, however, we still operate out of the Airport Authority property and still call it Fire Station #11. We currently have no agreement with the Airport Authority, we pay no rent and we receive no funds. We need to consider placing a station outside of the flight line to provide our services. Station #11 relocation from Airport to NW 48th & W. Seward.

Project 10 Breathing Air Refilling Cascade System

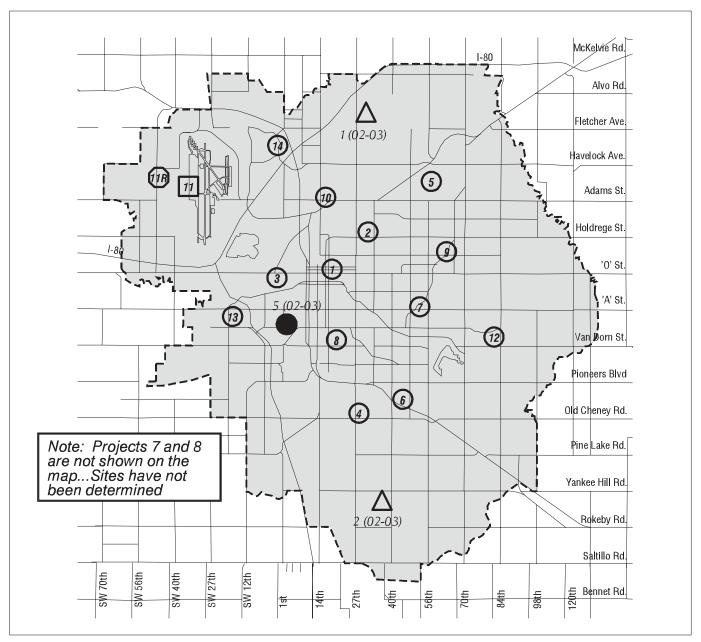
Install a breathing Air Refilling Cascade system at two more locations so apparatus can replenish their breathing air supply for self contained breathing apparatus. Adding these locations will reduce the "down time" and travel distance for units to return to a ready state in less time than the current system allows.

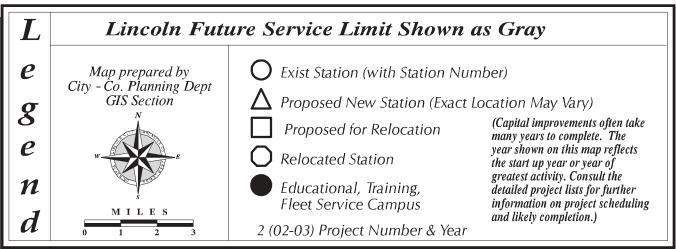
Project 11 Water Tankers

The Department is currently providing fire protection response to areas that have been annexed that **DO NOT** have city water mains and hydrants in place. Pumpers carry 500 gallons of water on each unit. This is an adequate quantity of water for a car or trash fire, but is not adequate for a residential fire. We are dependant upon tanker water provided from Southeast Rural Fire Department. There is no current plan in the public works division to install water mains and hydrants into these area's since they are acreage sized lots, and existing dwellings are inadequate to bear the huge cost of a water main system. The most cost effective method to assure water is available for fire protection is the purchase of water tankers. These tankers would be assigned to Station 12 for the South and East area's of the City, and Station 15 for the North and West area's.

Lincoln CIP 2002 - 2008

Fire





List of Projects Department: Lincoln Fire & Rescue

Project Project Number Title

1	Station 15
2	Station 16
(3)	Automatic Vehicle Locators
(4)	Handheld and Mobil Radios
5	Educational, Training, and Fleet Service Campus
(6)	Station Modifications and repairs
(7)	Equipment for Heavy Rescue Unit
(8)	Replacement of two aerials
9	Station 11 Relocation
(10)	Breathing Air Refilling Cascade System
(11)	Water Tankers

^{*}Project number in parenthesis indicates project is not shown on the map.

2002 -	2008 CAPITAL IMPROVEMENT PROGRAM		DEPARTMENT: DIVISION:	:	LINCOLN FIRE	& R	ESCUE						FORM A	
			_											
(1)	(2)	(3)	5% Inflation pe	er y				(4)						
PROJ. NO.	PROJECT TITLE	PROJ. PRIO.	2002-2003 F	s	2003-2004 F	S S	2004-2005		2005-2006	FS	(FS) (000's) 2006-2007	FS	2007-2008	FS
1	Build & equip new fire Station #15 at approximately 7000 No. 27th	Α	1,740.0 G	90										
2	Build & equip new fire Station #16 at approximately 38th & Yankee Hill Road	А	1,540.0 G	90										
3	Automatic Vehicle Locators	В	240.0 G	30										
4	Handheld and Mobil Radios - 165 each	Α	412.5 G	30										
5	Educational, Training, and Fleet Service Campus	Α	823.8 G	90										
6	Station Modifications and repairs	В	1,068.2 G	90										
7	Heavy Rescue Unit and equipment	В	300.0 G	90										
8	Replacement of two aerial pumpers - T8, T21	В	1,000.0 G	90										
9	Station 11 Relocation	С	650.0 G	3 O										
10	Breathing Air Refilling Cascade systems- two	С	90.0 G	3 O										
11	Water Tankers - two	С	130.0 G	3 O										
	FUNDING SOURCE BREAKDOWN:													
	(GO) G.O. Bonds		7,994.5											
	DEPARTMENT TOTALS:		======= 7,994.5											
	CLIDMITTED: 04/20//02		DEVICED:03/2	_			THE NAME.						10 D 1	

(5) (6) (7) (8) (9) (10) (10) (10) (10) (10) (10) (10) (10		FORM B											
TOTAL FOR SIX YEAR SEYOND 2007-2008 PRIOR CAP COSTS (000°s) YEAR F. S (000°s) (5)+(6)+(7) CONFORM PLANS (000°s) PRIOR F. S (000°s) PRIOR CAP COSTS (000°s) PRIOR P	T (1			(11)				(10)	(0)	(8)	(7)	(6)	(F)
Total For Six Years Servind Servind Six Year Six	(1)	(0001.)	- NOITH DEC		, , , , , , , , , , , , , , , , , , ,		2007	(10)	(9)		(7)		(5)
COOP'S COOP'S YEAR FS (5)+(6)+(7) CONFORM PLANS PLANS PLANS TION CONST FURNISH (EXPLAIN)	_			-YEAR EXPE	LAND					CAP COSTS		BEYOND	
1,540.0	PRO NC			CONST	l								
240.0 240.0 3412.5 323.8	1		790.0	540.0	350.0	44.0	16.0	1	ICWP	1,740.0			1,740.0
240.0 240.0 3412.5 323.8													
412.5 GCP 2 412.5 823.8 823.8 GCP 1 823.8 1,068.2 1,068.2 GCP 2 1,068.2 300.0 300.0 GCP 0 300.0 1,000.0 GCP 0 1,000.0 1,000.0 650.0 GCP 1 16.0 44.0 540.0 50.0 90.0 90.0 GCP 2 90.0 90.0	2		790.0	540.0	150.0	44.0	16.0	1	ICWP	1,540.0			1,540.0
412.5 GCP 2 412.5 823.8 823.8 GCP 1 823.8 1,068.2 1,068.2 GCP 2 1,068.2 300.0 300.0 GCP 0 300.0 1,000.0 GCP 0 1,000.0 1,000.0 650.0 GCP 1 16.0 44.0 540.0 50.0 90.0 90.0 GCP 2 90.0 90.0	3		240.0						CCD	240.0			240.0
823.8 GCP 1 823.8 1,068.2 GCP 2 1,068.2 300.0 1,000.0 GCP 0 300.0 1,000.0 GCP 0 1,000.0 GCP 1 16.0 44.0 540.0 50.0 90.0 GCP 2	'		240.0						GCP				
1,068.2	4		412.5					2	GCP	412.5			412.5
300.0 300.0 GCP 0 300.0 1,000.0 GCP 0 1,000.0 650.0 ICWP 1 16.0 44.0 540.0 50.0 90.0 90.0 GCP 2	5			823.8				1	GCP	823.8			823.8
1,000.0	6			1,068.2				2	GCP	1,068.2			1,068.2
650.0 GCP 1 16.0 44.0 540.0 50.0 90.0	7		300.0					0	GCP	300.0			300.0
650.0 GCP 1 16.0 44.0 540.0 50.0 90.0	8		1 000 0						CCB	1,000,0			1 000 0
90.0 GCP 2 90.0													
	9		50.0	540.0	44.0	16.0		1	ICWP	650.0			650.0
130.0 GCP 1 1 130.0	10		90.0					2	GCP	90.0			90.0
	11		130.0					1	GCP	130.0			130.0
7,994.5													7,994.5
7,994.5													

This page left blank intentionally.